

Title (en)
SYRINGE WITH DETACHABLE SYRINGE BARREL

Title (de)
SPRITZE MIT LÖSBARER SPRITZENZYLINDER

Title (fr)
SERINGUE A CYLINDRE AMOVIBLE

Publication
EP 1076574 A1 20010221 (EN)

Application
EP 99915413 A 19990427

Priority
• CA 9900335 W 19990427
• CA 2236049 A 19980427

Abstract (en)
[origin: WO9955401A1] The syringe (10) comprises a detachable syringe barrel (14) connected to a housing (12). The housing contains a drive means connected to a plunger (24). The drive means is for extending and retracting the plunger into and out of the detachable syringe barrel. The detachable syringe barrel comprises a stopper (26) at one end thereof in sealing engagement with the interior of the barrel and for releasable engagement with the end of the plunger distal to the drive means. At least a portion of the stopper is flexible between a first position and a second position. In the first position, the flexible stopper may be disengaged from the plunger upon retraction of the plunger away from the detachable syringe barrel. In the second position, the flexible stopper is maybe engaged with the plunger upon extension of the plunger toward the detachable syringe barrel.

IPC 1-7
A61M 5/315

IPC 8 full level
A61M 5/20 (2006.01); **A61M 5/315** (2006.01); **A61M 5/145** (2006.01); **A61M 5/28** (2006.01)

CPC (source: EP US)
A61M 5/20 (2013.01 - EP US); **A61M 5/31511** (2013.01 - EP US); **A61M 5/14546** (2013.01 - EP US); **A61M 5/14566** (2013.01 - EP US); **A61M 5/28** (2013.01 - EP US); **A61M 5/31515** (2013.01 - EP US)

Citation (search report)
See references of WO 9955401A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9955401 A1 19991104; AT E279953 T1 20041115; AU 3403199 A 19991116; AU 760070 B2 20030508; CA 2236049 A1 19991027; CA 2236049 C 20060725; DE 69921315 D1 20041125; DE 69921315 T2 20051020; EP 1076574 A1 20010221; EP 1076574 B1 20041020; JP 2002512859 A 20020508; US 6582399 B1 20030624

DOCDB simple family (application)
CA 9900335 W 19990427; AT 99915413 T 19990427; AU 3403199 A 19990427; CA 2236049 A 19980427; DE 69921315 T 19990427; EP 99915413 A 19990427; JP 2000545596 A 19990427; US 67414700 A 20001027